

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF: Matthias MAASE, et al.

SERIAL NO: New U.S. PCT Application Based on PCT/EP03/10150

GAU:

FILED: Herewith

EXAMINER:

FOR: PREPARATION OF ACYLPHOSPHINE OXIDES

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97

COMMISSIONER FOR PATENTS  
ALEXANDRIA, VIRGINIA 22313

SIR:

Applicant(s) wish to disclose the following information.

REFERENCES

- ☒ The applicant(s) wish to make of record the references listed on the attached form PTO-1449. Copies of the listed references are attached, where required, as are either statements of relevancy or any readily available English translations of pertinent portions of any non-English language references.
- ☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

RELATED CASES

- ☐ Attached is a list of applicant's pending application(s), published application(s) or issued patent(s) which may be related to the present application. In accordance with the waiver of 37 CFR 1.98 dated September 21, 2004, copies of the cited pending applications are not provided. Cited published and/or issued patents, if any, are listed on the attached PTO form 1449.
- ☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

CERTIFICATION

- ☐ Each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.
- ☐ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this statement.

DEPOSIT ACCOUNT

- ☒ Please charge any additional fees for the papers being filed herewith and for which no check or credit card payment is enclosed herewith, or credit any overpayment to deposit account number 15-0030. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

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Form PTO 1449 (Modified)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY DOCKET NO.  266596US0PCT		SERIAL NO. <b>107529190</b> New U.S. PCT Application Based on PCT/EP03/10150	
LIST OF REFERENCES CITED BY APPLICANT				APPLICANT  Matthias MAASE, et al.			
				FILING DATE  Herewith		GROUP	
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)							
	AZ	TANI K. ET AL.: "Acythio- and thioacyl-thiophosphines ((RCES)nPPh3-n, E=O, S; n=1-3): Synthesis and structural analysis" BULLETIN OF THE CHEMICAL SOCIETY OF JAPAN., vol. 73, no. 5, pages 1243-1252, May 2000.					
	AAA	SINITSA A.D. ET AL.: "Phosphorylation of N-substituted carboxamides with phosphorochloridites" JOURNAL OF GENERAL CHEMISTRY USSR., vol. 56, no. 6, November 20, 1986. XP 002266092					
	AAB	BURGADA R.: "Mécanisme d'acidolyse de la liaison PIII N et d'aminolyse de la liaison PIII OC(O)" BULLETIN DE LA SOCIETE CHIMIQUE DE FRANCE., no. 11, pages 4161-4163, November 1972. XP 002266093					
	AAC	NECAS M. ET AL.: "The first six membered genuine heterocycle: (Ph3PCu(Ph2P (S)-N-C(O)Ph))" PHOSPHORUS, SULFUR AND SILICON AND THE RELATED ELEMENTS, vol. 169, pages 55-58, 2001.					
	AAD	Heinz BOLLMACHER, Peter SARTORI, "Über Di- Und Tricarboxyphosphine" Chemiker-Zeitung, vol. 107, no. 4, pages 121-126, 1983.					
	AAE	Heinz BOLLMACHER, Peter SARTORI, "Über Diphenylcarboxyphosphine" Chemiker-Zeitung, vol. 106, no. 11, pages 391-395, 1982.					
	AAF	SARTORI, Peter: "Über die Umsetzung von Diphenylchlorphosphin mit Perfluoralkylcarbonsäuren." Zeitung Naturforsch., vol. 31b, pages 76-80, 1976.					
	AAG	Ullmann's Encyclopedia of Industrial Chemistry, Kapitel: Liquid-Liquid Extraction-Apparatus, 6 <sup>th</sup> Edition, 2000 Electronic Release					
	AAH	Friedel-Crafts-Katalysatoren, wie z.B. in George A. OLAH, "Friedel-Crafts and Related Reactions", vol. 1, pages 201, 284-290, 1963.					
	AAI	Nucleophile Katalysatoren, bei Bender in "Mechanismus of Homogeneous Catalysis from Protons to Proteins" Wiley 1971, S. pages 147-179.					
	AAJ	Jerry MARCH: "Advanced Organic Chemistry", 3 <sup>rd</sup> Edition, Wiley, pages 294, 334 and 347, 1985.					
	AAK	Alok K. BHATTACHARYA: "The Michaelis-Arbuzov Rearrangement", Chem.Rev., vol. 81, pages 415-430, 1981.					
	AAL						
	AAM						
	AAN						
	AAO						
	AAP						
Examiner						Date Considered	
*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

Form PTO 1449 (Modified)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY DOCKET NO. 266596US0PCT		SERIAL NO. <b>107529190</b> New U.S. PCT Application Based on PCT/EP03/10150	
LIST OF REFERENCES CITED BY APPLICANT				APPLICANT Matthias MAASE, et al.			
FILING DATE Herewith				GROUP			
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	AA	5,472,992	12/05/95	LEPPARD, David G. et al.			
	AB	2 659 747	11/17/53	YOUNG, Richard W.			
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						
	AL						
	AM						
	AN						
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES                  NO		
	AO	0 007 508 (A)	02/06/80	EP(Equivalent of US 4,292,152; US 4,324,744; US 4,298,738; US 4,385,109; US 4,710,523)		NO	
	AP	10 120691	05/12/98	JP(with English abstract)		NO	
	AQ	0 184 095	06/11/86	EP(Equivalent of US 4,737,593 & US 4,792,632)		NO	
	AR	00/32612	06/08/00	WO		NO	
	AS	0 062 839	10/20/82	EP(Equivalent of US 4,719,297)		NO	
	AT						
	AU						
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)							
	AV	AL'FONSOV V.A. ET AL.: "S-Acetyl phosphorothioites: synthesis, isomerism, and some reactions" JOURNAL OF GENERAL CHEMISTRY USSR., vol. 58, no. 8, pages 1548-1553, January 20, 1989. XP- 002266089					
	AW	SLUGGETT G. W. ET AL.: "(2,4,6-Trimethyl-benzoyl)diphenylphosphine oxide photochemistry. A direct time-resolved spectroscopic study of both radical fragments" JOURNAL OF THE AMERICAN CHEMICAL SOCIETY., vol. 117, no. 18, pages 5148-5153, 1995.					
	AX	LINDNER E. ET AL.: "Synthese und Stabilisierung von (Benzoyl- und Pentafluorbenzoyloxy)diphenylphosphan und Vergleich mit den entsprechenden isomeren Aroyldiphenylphosphanoxiden", Z. NATURFORSCH, vol. 36b, pages 297-300, 1981.					
	AY	BRIERLEY J. ET AL.: "The relative apicophilicities of pseudohalogen substituents in five-coordinate phosphoranes" PHOSPHORUS AND SULFUR, vol. 7, pages 167-169, 1979.				<input checked="" type="checkbox"/> Additional References sheet(s) attached	
Examiner					Date Considered		
*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

0/529190  
JC06 Rec'd PCT/PTO 24 MAR 2005

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Docket No.: 266596US0PCT

#### STATEMENT OF RELEVANCY

- 1) References AB, AO-AP, AV-AAC have been cited in the International Search Report. Copies of these references are being submitted herewith only when not automatically provided by the International Searching Authority.
- 2) References \_\_\_\_\_ have been cited in the corresponding \_\_\_\_\_ Search Report. A copy of these references is being submitted herewith.
- 3) References AA, AQ-AS, AAD- AAK are discussed in the specification. A copy of these references is being submitted here with.
- 4) Reference \_\_\_\_\_ is additional prior art known to Applicant. A copy of these references is being submitted herewith.